PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

			of Tournational
Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/41		xamination Report (Form PCT/IPEA/416)
73169-126962	International filing date (day)	month/year)	Priority date (day/month/year)
International application No.	l		12 October 1999 (12.10.1999)
PCT/US00/41164	11 October 2000 (11.10.200	D)	12 October 1999 (12.10.1993)
International Patent Classification (IPC)	or national classification and in	rc .	
IPC(7): H04L 27/06 and US C1.: 375/34	44		
Applicant			
ATHEROS COMMUNICATIONS, INC	J		
This international prelimi Examining Authority and	nary examination report has is transmitted to the applica	ini according to 11	
2. This REPORT consists o	f a total of 🔰 sheets, inclu	ding this cover sh	eet
This report is also an which have been am before this Authorit	ecompanied by ANNEXES, nended and are the basis for y (see Rule 70.16 and Section	i.e., sheets of the this report and/or on 607 of the Adn	e description, claims and/or drawings. sheets containing rectifications made ninistrative Instructions under the PCT).
These annexes consist of	Λ	A	-
	the follow	ving items:	
This report contains indications relating to the following items:			
I Basis of the re	eport	1	i
II Priority		i i	
III Non-establish	ment of report with regard t	o novelty, inventi	ve step and industrial applicability
IV Lack of unity	of invention		
V Reasoned state applicability;	tement under Article 35(2) v citations and explanations s	vith regard to nov upporting such sta	elty, inventive step or industrial atement
VI Certain docu			
	ets in the international applic		1
VIII Certain observations on the international application			
Date of submission of the demand	i	Date of completi	on of this report
07 May 2001 (07.05.2001)		25 July 2002 (25.	07.2002)
		Authorized officer	
Name and mailing address of the IPE Commissioner of Patents and Trad	EA/US emarks	of nous	_
Box PCT	Allenes	Stephen Chin	
Washington, D.C. 20231 Facsimile No. (703)305-3230		Telephone No. 7	03 305-4700
Pacsinine 140. (703)303-3230			

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

international application No.	
DOT/TTC00/41164	

ι.	Basis of the report	4
١.	With regard to the elements of the international application:*	
	the international application as originally filed.	
	the description:	-
	pages 1-10 as originally filed pages NONE , filed with the demand	
	pages NONE , filed with the letter of	
	the claims:	
	- in-line filed	
	as amended (together with any statement) under rations	
	pages NONE filed with the demand pages NONE filed with the letter of	- 1
	the drawings: pages 1-5 , as originally filed	- 1
	NONE filed with the demand	- 1
	pages NONE, filed with the letter of	- 1
	the sequence listing part of the description:	- 1
	pages NONE as originally filed pages NONE filed with the demand	- 1
		- 1
2		
	With regard to the language, all the elements maked above we have indicated under this item. language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:	-
	These elements were available of rurnished to this Auditority in the constant search (under Rule23.1(b)).	ĺ
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).	- 1
	the language of publication of the international application (under Rule 48.3(b)).	:8
	the language of the translation furnished for the purposes of international preliminary examination(under Rule	-
١.	55.2 and/or 55.3). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the	- 1
1	With regard to any nucleotide anti-or anniho acid sequence listing: international preliminary examination was carried out on the basis of the sequence listing:	
١	eontained in the international application in printed form.	
	filed together with the international application in computer readable form.	1
	furnished subsequently to this Authority in written form.	
١	furnished subsequently to this Authority in computer readable form.	
	Infinished seaso-deceased the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.	- 1
	The statement that the information recorded in computer readable form is identical to the written sequence line has been furnished.	iting
	The amendments have resulted in the cancellation of:	- 1
	the description, pages NONE	
	the claims, Nos. NONE	
	the drawings, sheets/fig NONE	
	The hard established as if (some of) the amendments had not been made, since they have been considered to	go
	beyond the disclosure as Itted, as function in unsuppressional and in response to an invitation under Article 14 are referred. * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred this report as "originally filed" and are not annexed to this report since they do not contain annealments (Balez 70.16 and 70.17, "Any replacement sheet containing such annealments must be referred to under ten 1 and annexed to this report. **Any replacement sheet containing such annealments must be referred to under ten 1 and annexed to this report.	to in).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International application No. PCT/US00/41164

I. STATEMENT			
November (ND	Cl.:	67 014 20 21 20 20 1 22 25	370
Novelty (N)		6-7, 9-14, 20-21, 23-30, and 32-35	YE
	Claims	1-5, 8, 15-19, 22, 31, and 36-43	NO
Inventive Step (IS)	Claims	6-7, 9-14, 20-21, 23-30, and 32-35	YE
	Claims	1-5, 8, 15-19, 22, 31, and 36-43	NO
Industrial Applicability (IA)	Claims	1.40	YE
moustrial Applicatility (IA)	Claims		NO NO
	Claims	NONE	NO
ransmitter) and the second unit (figure 5) in a first int (receiver); means for adjusting the common frequenciatmed. 2) regarding claims 2 and 16: wherein the common frequency is a carrie (3) regarding claims 3 and 16: wherein it well known that the common fifth of the common fitten of the commo	and 312 in figur t signal (output t signal (output ty) (303) in accoor frequency (a requency can be stated as shifting data to) for locking on 5 meet the crite a digital interput as a claimed.	rdance with the offset in a second signal (our burner). a sampling frequency. as claimed. to the offset in the carrier frequency as claimed. tria set out in PCT Article 33(2)-(4), because tria set out in PCT Article 33(2)-(4), because	tted from 319) as divided from 319.
JS 5.694.389 A (SEKI et al.) 02 December 1997.			
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NEW CITATIONS			